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23 August 1957

P-144A

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MEMORANDUM FOR: THE RECORD

SUBJECT : Trip Report - [REDACTED]

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1. TIME AND PLACE OF MEETING: The meeting was held 15 August
at [REDACTED]

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2. ATTENDANCE: [REDACTED]

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3. DISCUSSION:

a. P-144A - Carrier Current System

Fifteen (15) of the Mark III prototypes were returned to Radio Receptor for modification. An investigation by [REDACTED] has revealed that certain minor circuit changes in both the transmitter and receiver greatly improve the system performance. These modifications were discussed and it was agreed that [REDACTED] would send to the undersigned a complete list of modifications made to the units along with [REDACTED] suggestions for future modifications and/or improvements.

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In general the modifications to be made are:

(1) Transmitter:

(a) Change value of R213 to 5.6 K

(b) Change value of R216 to 56 K

These changes allow clipping circuit to clip symmetrically instead of only positively as was the case.

(2) Receiver:

(a) Physically relocate C112 to reduce oscillations

(b) Insert a "twin T" to block RF from the audio circuits.

(c) Punch holes in

DOCUMENT NO. 14

NO CHANGE IN CLASS. ☐

☐ DECLASSIFIED

CLASS. CHANGED TO: TS S (C) 200

NEXT REVIEW DATE: _____

AUTH: HR 70-2

DATE: _____ REVIEWER: 037169

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- (c) Punch holes in receiver case to reduce operating temperature 20° C. The official go ahead for this particular modification was not given by the undersigned since it was felt that members of APD should discuss this in light of possible operational installations, whereby the holes may prove disadvantageous. A sample case was brought back to APD for discussion purposes.
- (d) Remove B+ from headset circuit. A different headset jack is being considered and will be incorporated, if possible.

All fifteen systems are to be modified and returned to APD on or before 30 September.

The proposal covering the general task for the modifications was mailed from [REDACTED], 13 August 1957.

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b. P-191A - VHF, Low Band, ASR-1

The first unit may be available by the latter part of October. [REDACTED] has selected a commercial standard "B" battery for the receiver, but have been unable to locate a suitable commercially available filament source. This problem will be investigated further by [REDACTED] and discussed with [REDACTED] of APD during his next visit. Several commercial batteries are presently undergoing life tests at [REDACTED]

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4. GENERAL:

A Revere T-700 Recorder, Serial #11648, was delivered to [REDACTED] on an indefinite loan basis for their use while testing equipment under development.

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[REDACTED]
TSS/APD/EB

Distribution:

Orig. - P-144A
1 - P-191A
1 - Chrono

[REDACTED] (23 Aug 57)

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